Withers, David Ian and Roger A. McCoy, 2005. Distributional Surveys for *Cambarus pristinus* and *Cambarus williami*, two Endangered Crayfish in Tennessee, TWRA Contract #ID-05-0828-00. Tennessee Division of Natural Heritage, Nashville, 57 pp.

Introduction and Summary

The Division of Natural Heritage (DNH) was contracted by the TWRA to conduct distributional surveys for two State endangered crayfish, *Cambarus pristinus* and *Cambarus williami*. Though no officially recognized common names exist for these species, they are tentatively identified as the Caney Fork crayfish and Brawley's Fork crayfish, respectively. Surveys for the two species were undertaken between fall 2004 and summer 2005.

Cambarus (Veticambarus) pristinus Hobbs was described in 1965 from specimens collected in Whiteoak Creek, Cumberland County, Tennessee (Hobbs, 1965). Its distribution is regarded as the sandstone-dominated tributaries of the upper Caney Fork drainage in Van Buren, Cumberland, White, and Bledsoe counties, Tennessee (Hobbs, 1989; Williams, 2001). The species was reported from 10 sites prior to the initiation of this study, 5 of which were considered historical. The current survey has documented the species from an additional 6 streams and reconfirmed two other locations in Cumberland County.

Cambarus (Glareocola) williami Bouchard & Bouchard was described in 1995 from specimens collected in Brawley's Fork, Cannon County, Tennessee (Bouchard & Bouchard, 1995). This species is believed to be restricted to the cobble-dominated upper portion of the East Fork Stones River and its tributaries in Cannon County, Tennessee (Bouchard & Bouchard, 1995; Williams, 2001). Prior to initial surveys conducted by the DNH in 2000, this species was only reported from the type locality, Brawley's Fork. The earlier DNH surveys documented the species in an additional 11 segments in 9 streams (2000-2001). The current surveys documented the species at another 21 sites in 9 streams, including the East Fork Stones River proper. Two previously known records were reconfirmed.